



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

REGION 06 SITE NUMBER (to be assigned by HQ) LA 0109 3727

GENERAL INSTRUCTIONS: Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (Section II). File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME West Hackberry Strategic Petroleum Reserve		B. STREET (or other identifier) P.O. Box 278	
C. CITY Hackberry	D. STATE La.	E. ZIP CODE 70645	F. COUNTY NAME Cameron Parish
G. SITE OPERATOR INFORMATION		2. TELEPHONE NUMBER	
1. NAME Boeing Petroleum Services		(318) 436-0668	
3. STREET P.O. Box 278	4. CITY Hackberry	5. STATE La.	6. ZIP CODE 70645
H. REALTY OWNER INFORMATION (if different from operator of site)		2. TELEPHONE NUMBER	
1. NAME United States Department of Energy		(318) 436-0668	
3. CITY Hackberry	4. STATE La.	5. ZIP CODE 70645	
I. SITE DESCRIPTION Primary Installation-U.S. Strategic Petroleum Reserve			
J. TYPE OF OWNERSHIP			
<input checked="" type="checkbox"/> 1. FEDERAL <input type="checkbox"/> 2. STATE <input type="checkbox"/> 3. COUNTY <input type="checkbox"/> 4. MUNICIPAL <input type="checkbox"/> 5. PRIVATE			

II. TENTATIVE DISPOSITION (complete this section last)

A. ESTIMATE DATE OF TENTATIVE DISPOSITION (mo., day, & yr.)	B. APPARENT SERIOUSNESS OF PROBLEM
	<input type="checkbox"/> 1. HIGH <input type="checkbox"/> 2. MEDIUM <input type="checkbox"/> 3. LOW <input checked="" type="checkbox"/> 4. NONE
C. PREPARER INFORMATION	
1. NAME L. G. Michel, FIT	2. TELEPHONE NUMBER (214) 742-6601
	3. DATE (mo., day, & yr.) 6/25/85

III. INSPECTION INFORMATION

A. PRINCIPAL INSPECTOR INFORMATION	
1. NAME L. G. Michel	2. TITLE Environmental Scientist, FIT
3. ORGANIZATION Ecology And Environment, Inc., 1509 Main St., Dallas, Tx. 75201	
4. TELEPHONE NO. (area code & no.) 214-742-6601	

B. INSPECTION PARTICIPANTS		
1. NAME	2. ORGANIZATION	3. TELEPHONE NO.
L. G. Michel	Ecology And Environment, Inc.	214-742-6601
R. J. Kratzke	Ecology And Environment, Inc.	214-742-6601

C. SITE REPRESENTATIVES INTERVIEWED (corporate officials, workers, residents)		
1. NAME	2. TITLE & TELEPHONE NO.	3. ADDRESS
Michael Huff	Site Environmental Spec. 318-436-0668	P.O. Box 278, Hackberry, La. 70645
Bill E. Bozzo	Environmental Coordinator 318-436-0668	P.O. Box 278, Hackberry, La. 70645
		9109404



III. INSPECTION INFORMATION (continued)

D. GENERATOR INFORMATION (sources of waste)

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE GENERATED
Strategic Petroleum Reserve	318-436-0668	P.O. Box 278, Hackberry, La., 70645	Brine; oily absorbents

E. TRANSPORTER/HULER INFORMATION

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE TRANSPORTED
NA			

F. IF WASTE IS PROCESSED ON SITE AND ALSO SHIPPED TO OTHER SITES, IDENTIFY OFF-SITE FACILITIES USED FOR DISPOSAL.

1. NAME	2. TELEPHONE NO.	3. ADDRESS
NA		

G. DATE OF INSPECTION
(mo., day, & yr.)

6/3/85

H. TIME OF INSPECTION

1330 hours

I. ACCESS GAINED BY: (credentials must be shown in all cases)



1. PERMISSION



2. WARRANT

J. WEATHER (describe)

Partly cloudy (60%); 90°F

IV. SAMPLING INFORMATION

A. Mark 'X' for the types of samples taken and indicate where they have been sent e.g., regional lab, other EPA lab, contractor, etc. and estimate when the results will be available.

1. SAMPLE TYPE	2. SAMPLE TAKEN (mark 'X')	3. SAMPLE SENT TO:	4. DATE RESULTS AVAILABLE
a. GROUNDWATER			
b. SURFACE WATER			
c. WASTE			
d. AIR			
e. RUNOFF			
f. SPILL			
g. SOIL			
h. VEGETATION			
i. OTHER (specify)			
X No samples taken during inspection			

B. FIELD MEASUREMENTS TAKEN (e.g., radioactivity, explosivity, PH, etc.)

1. TYPE	2. LOCATION OF MEASUREMENTS	3. RESULTS
None		

IV. SAMPLING INFORMATION (continued)

C. PHOTOS

1. TYPE OF PHOTOS

☒ a. GROUND ☐ b. AERIAL

2. PHOTOS IN CUSTODY OF:

EPA, Region VI (attached)

D. SITE MAPPED?

☒ YES. SPECIFY LOCATION OF MAPS:

U.S.G.S. 7½' Topographic Sheet (attached)

E. COORDINATES

1. LATITUDE (deg.-min.-sec.)

30° 59' 47" N

2. LONGITUDE (deg.-min.-sec.)

93° 24' 36" W

V. SITE INFORMATION

A. SITE STATUS

☒ 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)

☐ 2. INACTIVE (Those sites which no longer receive wastes.)

☐ 3. OTHER (specify):
(Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)

B. IS GENERATOR ON SITE?

☐ 1. NO

☒ 2. YES (specify generator's four-digit SIC Code): NA

C. AREA OF SITE (in acres)

565

D. ARE THERE BUILDINGS ON THE SITE?

☐ 1. NO

☒ 2. YES (specify): Maintenance operations security

VI. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

X	A. TRANSPORTER	X	B. STORER	X	C. TREATER	X	D. DISPOSER
	1. RAIL		1. PILE		1. FILTRATION		1. LANDFILL
	2. SHIP		2. SURFACE IMPOUNDMENT		2. INCINERATION		2. LANDFARM
	3. BARGE		3. DRUMS		3. VOLUME REDUCTION		3. OPEN DUMP
	4. TRUCK		4. TANK, ABOVE GROUND		4. RECYCLING/RECOVERY		4. SURFACE IMPOUNDMENT
	5. PIPELINE		5. TANK, BELOW GROUND		5. CHEM./PHYS./TREATMENT		5. MIDNIGHT DUMPING
	6. OTHER (specify):		6. OTHER (specify):		6. BIOLOGICAL TREATMENT		6. INCINERATION
					7. WASTE OIL REPROCESSING		7. UNDERGROUND INJECTION
					8. SOLVENT RECOVERY		8. OTHER (specify):
					9. OTHER (specify):	X	Ocean (Gulf of Mexico) disposal

E. SUPPLEMENTAL REPORTS: If the site falls within any of the categories listed below, Supplemental Reports must be completed. Indicate which Supplemental Reports you have filled out and attached to this for..

- ☐ 1. STORAGE ☐ 2. INCINERATION ☐ 3. LANDFILL ☐ 4. SURFACE IMPOUNDMENT ☐ 5. DEEP WELL
☐ 6. CHEM/BIO/PHYS TREATMENT ☐ 7. LANDFARM ☐ 8. OPEN DUMP ☐ 9. TRANSPORTER ☐ 10. RECYCLOR/RECLAIMER

VII. WASTE RELATED INFORMATION

A. WASTE TYPE

☒ 1. LIQUID ☒ 2. SOLID ☐ 3. SLUDGE ☐ 4. GAS

B. WASTE CHARACTERISTICS

☐ 1. CORROSIVE ☐ 2. IGNITABLE ☐ 3. RADIOACTIVE ☐ 4. HIGHLY VOLATILE
☐ 5. TOXIC ☐ 6. REACTIVE ☐ 7. INERT ☐ 8. FLAMMABLE

☒ 9. OTHER (specify): Concentrated Brine (98-99% NaCl); oily absorbents

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

Brine pumping records available; manifests available

WASTE RELATED INFORMATION (continued)

2. Estimate the amount (specify unit of measure) of waste by category; mark 'X' to indicate which wastes are present.

a. SLUDGE		b. OIL		c. SOLVENTS		d. CHEMICALS		e. SOLIDS		f. OTHER	
AMOUNT		AMOUNT		AMOUNT		AMOUNT		AMOUNT		AMOUNT	
None		None		None		None		75		None	
UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE	
								yd3	year		
<input checked="" type="checkbox"/> (1) PAINT, PIGMENTS		<input checked="" type="checkbox"/> (1) OILY WASTES		<input checked="" type="checkbox"/> (1) HALOGENATED SOLVENTS		<input checked="" type="checkbox"/> (1) ACIDS		<input checked="" type="checkbox"/> (1) FLYASH		<input checked="" type="checkbox"/> (1) LABORATORY, PHARMACEUT.	
(2) METALS SLUDGES		(2) OTHER(specify):		(2) NON-HALOGNTD. SOLVENTS		(2) PICKLING LIQUORS		(2) ASBESTOS		(2) HOSPITAL	
(3) POTW				(3) OTHER(specify):		(3) CAUSTICS		(3) MILLING/MINE TAILINGS		(3) RADIOACTIVE	
(4) ALUMINUM SLUDGE						(4) PESTICIDES		(4) FERROUS SMELTING WASTES		(4) MUNICIPAL	
(5) OTHER(specify):						(5) DYES/INKS		(5) NON-FERROUS SMLTG. WASTES		(5) OTHER(specify):	
						(6) CYANIDE		<input checked="" type="checkbox"/> (6) OTHER(specify):			
						(7) PHENOLS		Oily Absorbents			
						(8) HALOGENS					
						(9) PCB					
						(10) METALS					
						(11) OTHER(specify):					

D. LIST SUBSTANCES OF GREATEST CONCERN WHICH ARE ON THE SITE (place in descending order of hazard)

1. SUBSTANCE	2. FORM (mark 'X')			3. TOXICITY (mark 'X')				4. CAS NUMBER	5. AMOUNT	6. UNIT
	a. SO-LID	b. LIQ.	c. VA-POR	a. HIGH	b. MED.	c. LOW	d. NONE			
None										

VIII. HAZARD DESCRIPTION

FIELD EVALUATION HAZARD DESCRIPTION: Place an 'X' in the box to indicate that the listed hazard exists. Describe the hazard in the space provided.

☐ A. HUMAN HEALTH HAZARDS

VIII. HAZARD DESCRIPTION (continued)

☐ B. NON-WORKER INJURY/EXPOSURE

☐ C. WORKER INJURY/EXPOSURE

☐ D. CONTAMINATION OF WATER SUPPLY

☐ E. CONTAMINATION OF FOOD CHAIN

☐ F. CONTAMINATION OF GROUND WATER

☐ G. CONTAMINATION OF SURFACE WATER

VIII. HAZARD DESCRIPTION (continued)

☐ H. DAMAGE TO FLORA/FAUNA☐ I. FISH KILL☐ J. CONTAMINATION OF AIR☐ K. NOTICEABLE ODORS☐ L. CONTAMINATION OF SOIL☐ M. PROPERTY DAMAGE

VIII. HAZARD DESCRIPTION (continued)

☒ N. FIRE OR EXPLOSION

Sabotage of a Strategic Petroleum Reserve facility could potentially cause fire/explosion. Elaborate security system mitigates against saboteurs

☒ O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID

Absorbents used to clean up minor spills/leaks of crude oil.

☐ P. SEWER, STORM DRAIN PROBLEMS

☐ Q. EROSION PROBLEMS

☐ R. INADEQUATE SECURITY

☐ S. INCOMPATIBLE WASTES

VIII. HAZARD DESCRIPTION (continued)

☐ T. MIDNIGHT DUMPING☒ U. OTHER (specify):

The Hackberry, La., site is the primary facility in the U.S.D.O.E.'s Strategic Petroleum Reserve. Beginning in 1977, salt dome formations beneath the site have been solution mined using pressurized water. This process forms enormous salt caverns in which the DOE stores domestic and imported crude oil as insurance against a foreign embargo or national petroleum short fall.

Brine produced by solution mining is pumped via pipeline for disposal 6-8 miles offshore in the Gulf of Mexico. No wastes and no waste-producing processes were observed on-site during the inspection. The site exhibited excellent industrial housekeeping and very stringent security.

No further action is recommended by the FIT.

IX. POPULATION DIRECTLY AFFECTED BY SITE

A. LOCATION OF POPULATION	B. APPROX. NO. OF PEOPLE AFFECTED	C. APPROX. NO. OF PEOPLE AFFECTED WITHIN UNIT AREA	D. APPROX. NO. OF BUILDINGS AFFECTED	E. DISTANCE TO SITE (specify units)
1. IN RESIDENTIAL AREAS	1300	1300	400	1.5 mi
2. IN COMMERCIAL OR INDUSTRIAL AREAS	0	0	0	0
3. IN PUBLICLY TRAVELLED AREAS	0	0	0	0
4. PUBLIC USE AREAS (parks, schools, etc.)	50	50	2	.5 mi

X. WATER AND HYDROLOGICAL DATA

A. DEPTH TO GROUNDWATER (specify unit) 500'	B. DIRECTION OF FLOW North	C. GROUNDWATER USE IN VICINITY Drinking water; Agriculture
D. POTENTIAL YIELD OF AQUIFER 996, 300 gpd	E. DISTANCE TO DRINKING WATER SUPPLY (specify unit of measure) 1.5 mi	F. DIRECTION TO DRINKING WATER SUPPLY East
G. TYPE OF DRINKING WATER SUPPLY		
<input type="checkbox"/> 1. NON-COMMUNITY < 15 CONNECTIONS* <input checked="" type="checkbox"/> 2. COMMUNITY (specify town): <u>Hackberry, La.</u> <input type="checkbox"/> 3. SURFACE WATER <input checked="" type="checkbox"/> 4. WELL		

X. WATER AND HYDROLOGICAL DATA (continued)

H. LIST ALL DRINKING WATER WELLS WITHIN A 1/4 MILE RADIUS OF SITE

1. WELL	2. DEPTH (specify unit)	3. LOCATION (proximity to population/buildings)	4. NON-COM- MUNITY (mark 'X')	5. COMMUN- ITY (mark 'X')
None				

I. RECEIVING WATER

1. NAME

Black Lake

☐ 2. SEWERS☐ 3. STREAMS/RIVERS☐ 4. LAKES/RESERVOIRS☒ 5. OTHER (specify): Bayou/marsh

6. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS

Non-contact recreation; propagation of fish and wildlife

XI. SOIL AND VEGETATION DATA

LOCATION OF SITE IS IN:

☐ A. KNOWN FAULT ZONE☐ B. KARST ZONE☐ C. 100 YEAR FLOOD PLAIN☒ D. WETLAND☐ E. A REGULATED FLOODWAY☐ F. CRITICAL HABITAT☐ G. RECHARGE ZONE OR SOLE SOURCE AQUIFER

XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED

Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts.

A. COVERED	B. BEDROCK (specify below)	C. OTHER (specify below)
<input checked="" type="checkbox"/> 1. SAND		Entire site underlain by salt dome at 2000'
<input checked="" type="checkbox"/> 2. CLAY		
<input type="checkbox"/> 3. GRAVEL		

XIII. SOIL PERMEABILITY

☐ A. UNKNOWN☐ B. VERY HIGH (100,000 to 1000 cm/sec.)☐ C. HIGH (1000 to 10 cm/sec.)☐ D. MODERATE (10 to .1 cm/sec.)☐ E. LOW (.1 to .001 cm/sec.)☒ F. VERY LOW (.001 to .00001 cm/sec.)

G. RECHARGE AREA

☐ 1. YES☒ 2. NO

3. COMMENTS: Recharge areas 30 miles North

H. DISCHARGE AREA

☒ 1. YES☐ 2. NO

3. COMMENTS: Estuarine drainage to Gulf of Mexico

I. SLOPE

1. ESTIMATE % OF SLOPE

0-1%

2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.

South as coastal plain, estuary

J. OTHER GEOLOGICAL DATA

NA

XIV. PERMIT INFORMATION

List all applicable permits held by the site and provide the related information.

A. PERMIT TYPE (e.g., RCRA, State, NPDES, etc.)	B. ISSUING AGENCY	C. PERMIT NUMBER	D. DATE ISSUED (mo., day, & yr.)	E. EXPIRATION DATE (mo., day, & yr.)	F. IN COMPLIANCE (mark 'X')		
					1. YES	2. NO	3. UN- KNOWN
NPDES	EPA	LA0053031	8/22/84	8/21/89	X		

XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

☐ NONE ☒ YES (summarize in this space)

Special "one-time" Generator permit (#LAP2-30051980) issued for disposal of approximately 5 gallons of reagent grade laboratory stock, principally benzene and benzyl chloride.

NOTE: Based on the information in Sections III through XV, fill out the Tentative Disposition (Section II) information on the first page of this form.

LOUISIANA-CAMERON PARISH
7.5 MINUTE SERIES ORTHOPHOTOMAP (TOPOGRAPHIC)
CAMERON 15' QUADRANGLE

25' 160

161

162

1:350 000 FEET

9

WEST HACKBERRY
STRATEGIC PETROLEUM RESERVE

WEST HACKBERRY
OIL FIELD

Vincent

Island

Hackberry
Recreation Area

Hackberry
High School

Herbert

32

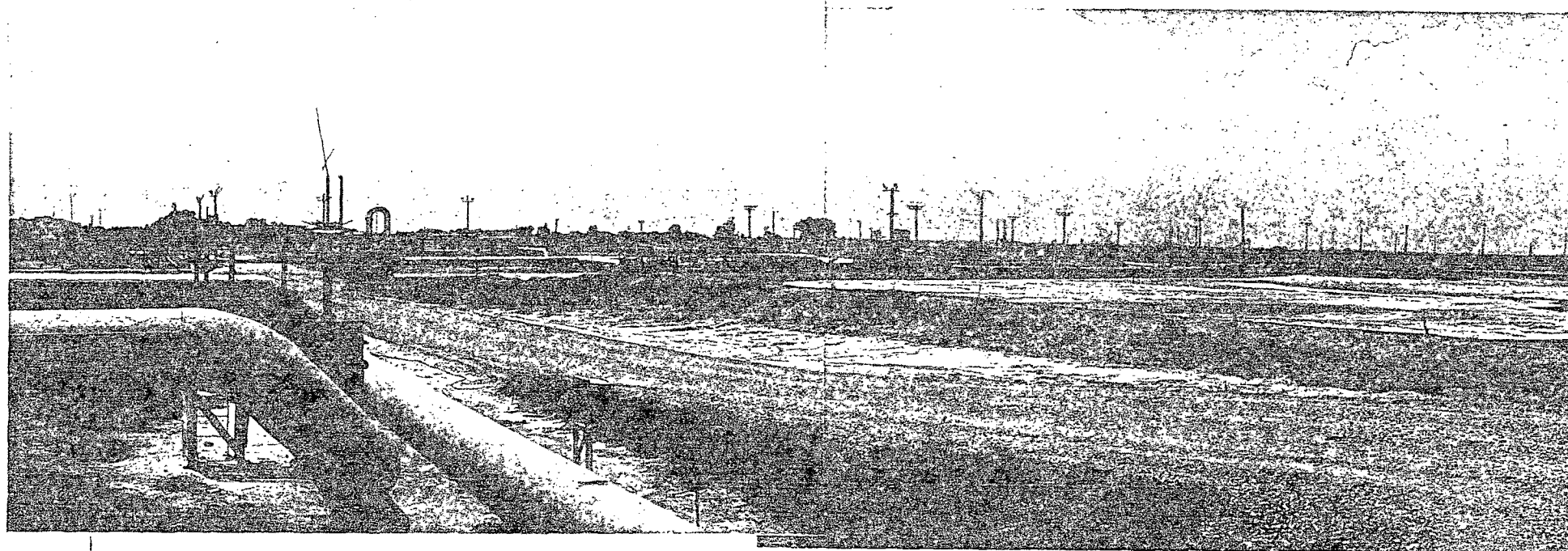
33

34

China

Chinaberry
Island

STARKS



Overlay
Sheet 2

Photographer / Witness

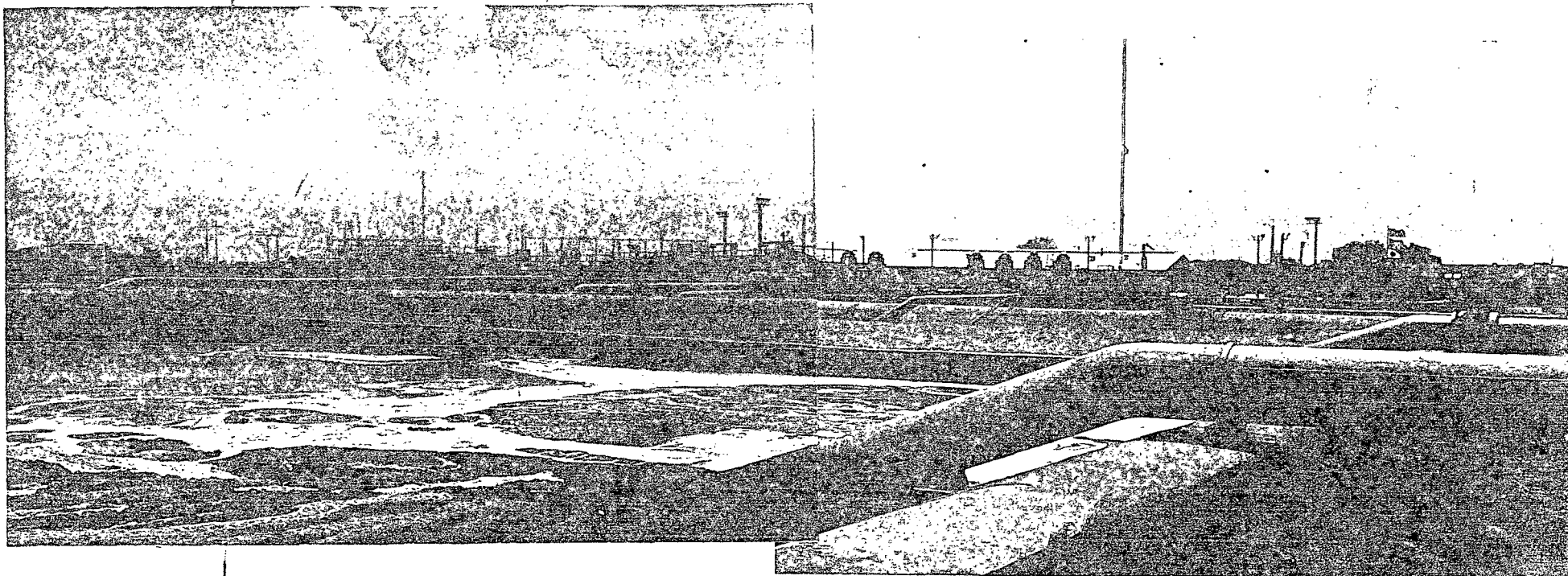
L. MICHAEL

Date / Time / Direction

6/3/05 1420 Facing NW

Comments:

Overlay sheet #2 at
indicated line to provide
site panorama.



Photographer / Witness

LOMUEKE

Date / Time / Direction

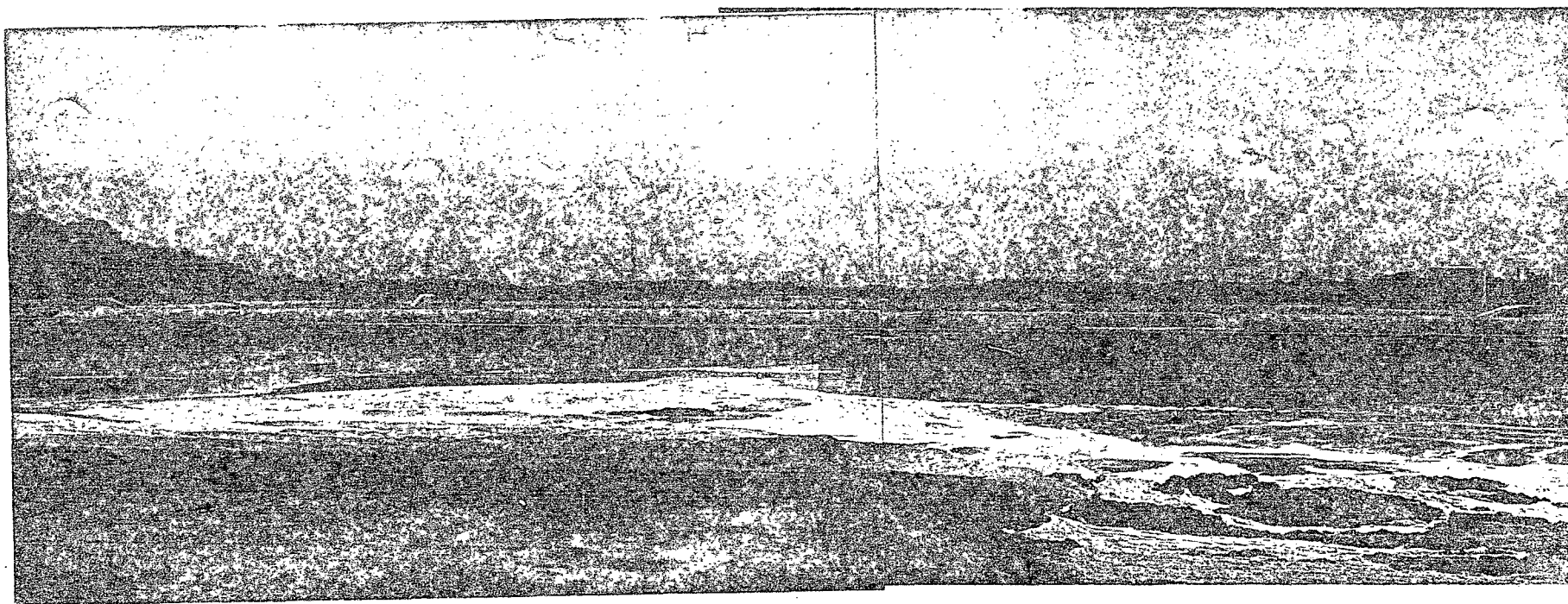
6/3/85 1420 Facing W

Comments:

Overlay onto sheet 1

where indicated to provide
panorama of site.

Overlay
sheet 3



Photographer / Witness

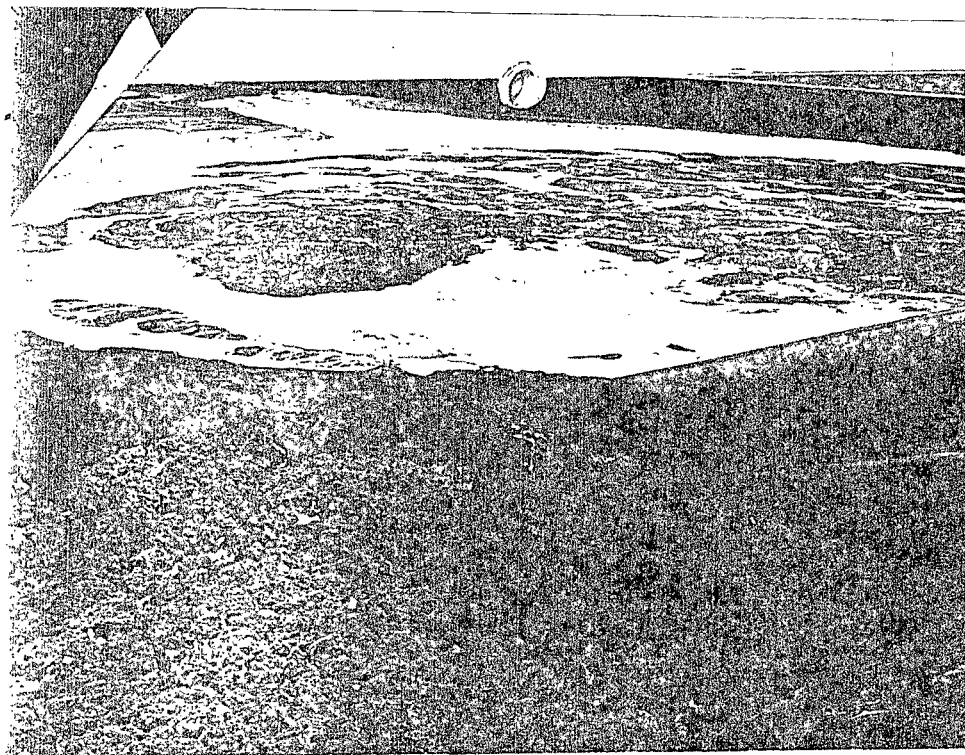
LG MICHEL

Date / Time / Direction

6/3/85 1420 Facing S

Comments:

Overlay onto Sheet 2
where indicated to provide
site panorama.



Photographer / Witness

LG Mueller

Date / Time / Direction

6/3/85 1420 Facing West

Comments: Brine discharge
from salt dome solution
mining.

Photographer / Witness

Date / Time / Direction

Comments: _____

Photographer / Witness

Date / Time / Direction

Comments: _____